

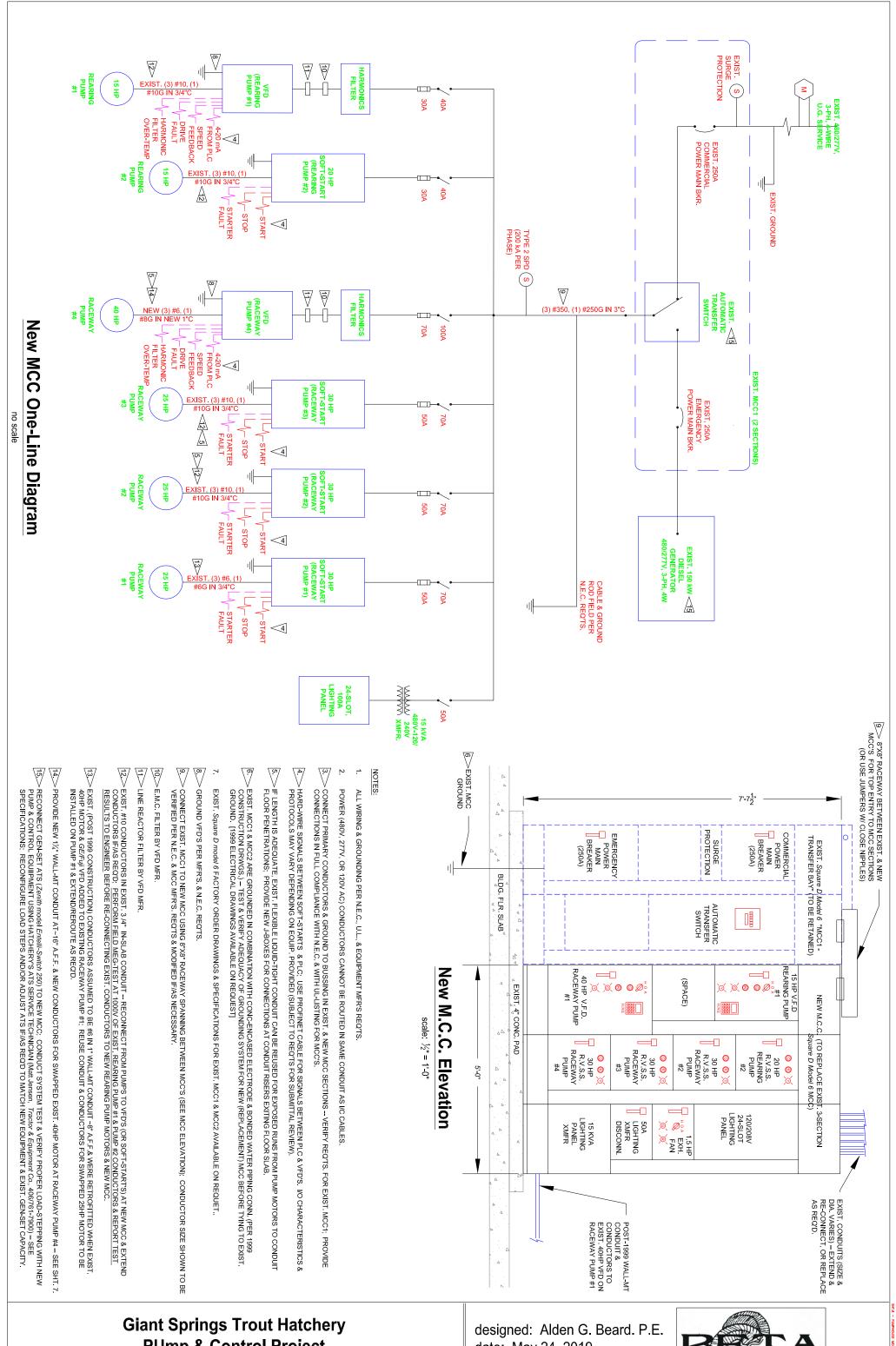
Giant Springs Trout Hatchery
Pump & Control Project
PUMPHOUSE ELECTRICAL & I/C PLAN

designed: Alden G. Beard. P.E. date: May 24, 2019

revised:

190

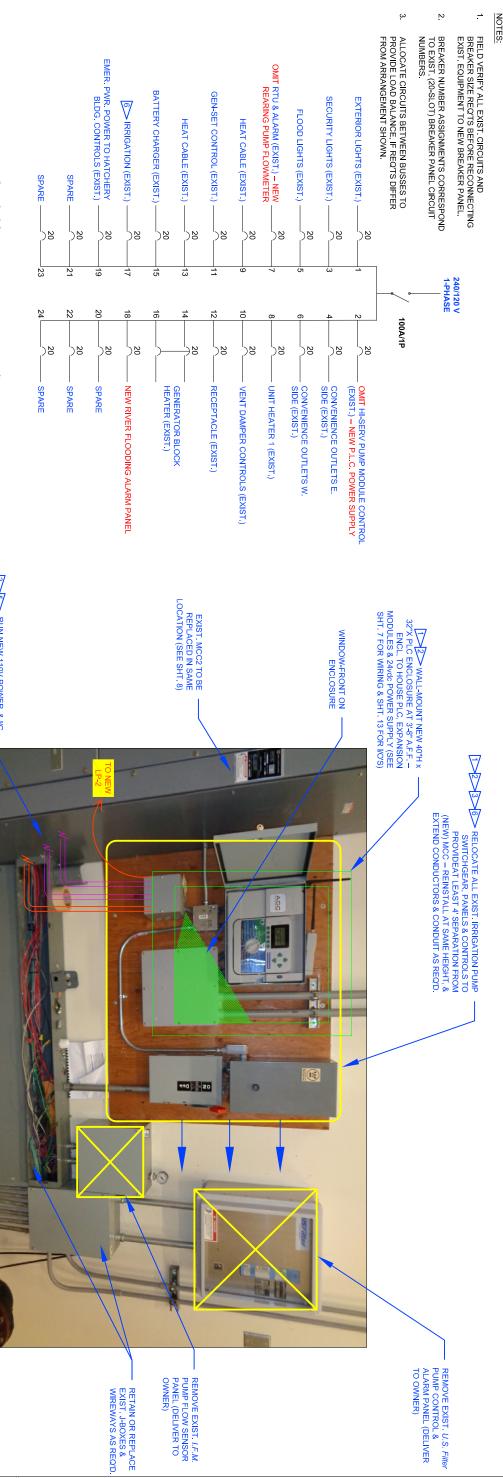




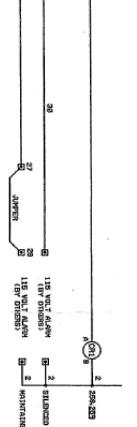
PUmp & Control Project PUMPHOUSE M.C.C. REPLACEMENT & ONE-LINE DIAG 491

date: May 24, 2019 revised





New (MCC) Lighting Panel Schematic



ALARM SILENCE

NOTES:

HIGH WATER ALARM

- WIRE TWO NEW REMOTE ALARM CIRCUITS (FOR HIGH SEWAGE LEVEL & FOR LOW SEWAGE STATION TEMPERATURE) FROM NEW REARING BLDG. ALARM DIALER TO SEWAGE STATION CONTROL PANEL (SEE SHT. 11).
- NEW REMOTE ALARM CIRCUITS TO BE 24 VDC ROUTED FROM DIALER THROUGH SEWAGE STATION CONTROL PANEL HI-LEVEL AND LOW-TEMP RELAY(S) DRY CONTACTS VERIFY WIRING & RELAY REQUIREMENTS WITH SEWAGE LIFT STATION MFR.

 CIRCUIT DIAGRAMS SHOWN ARE EXCERPTS FROM 1998 Gorman-Rupp SELF-PRIMING DUPI SEWAGE LIFT STATION WIRING DIAGRAMS [FULL DIAGRAMS AND 2006 FACTORY
- CIRCUIT DIAGRAMS SHOWN ARE EXCERPTS FROM 1998 Gorman-Rupp SELF-PRIMING DUPLEX SEWAGE LIFT STATION WIRING DIAGRAMS [FULL DIAGRAMS AND 2006 FACTORY ENGINEERING ORDER ARE AVAILABLE ON REQUEST]. THE DESIGNATION "HWR" IS IDENTIFIED BY THE MFR. ELSEWHERE ON WIRING DIAGRAMS AS "HIGH WATER RELAY".

 LIFT STATION VENDOR IS Russell Industries (Billings MT. 406/256-1370) WHO PERFORMS
- LIFT STATION VENDOR IS *Russell Industries* (Billings, MT, 406/256-1370) WHO PERFORMS SERVICE ON THE SEWAGE LIFT STATION & MAY BE CONSULTED FOR EXIST. EQUIPMENT AND CONTROL DETAILS.
- NOTIFY GIANT SPRINGS STATE PARK IN WRITING 7 DAYS IN ADVANCE OF WORKING ON EXIST SEWAGE LIFT STA. CONTROL PANEL FOR NEW ALARM CONNECTIONS.

Exist. Park Sewage Lift Sta. Alarm Relay Connections

Exist. Control & Irrigation Pump Panels to be Relocated (on S.

. Wall)

no scale

NOTES:

- 1) MOUNT PANELS (OR EXIST. PLYWOOD BACKER) TO NEW HORIZONTAL WALL-MOUNTED 2" UniStrut RUNS (LENGTHS AS REQ'D).
- 2-> SPACE PANELS AS REQ'D. FOR CLEARANCES & CONDUIT ROUTINGS SPATIAL ARRANGEMENT SHOWN IS SCHEMATIC, SUBJECT TO CONTRACTOR CONFIRMATION & ORIENTATION OF PANEL CONNECTIONS. ADD J-BOXES IF/AS REQ'D. ON CONDUITS EXTENSIONS.
- 3.>> POWER (AC & DC) CONDUCTORS CANNOT BE ROUTED IN SAME CONDUIT AS I/C CABLES.
- L WIRING & GROUNDING PER N.E.C. & EQUIPMENT MFR'S. REC
- S.>> PROFINET CABLES TO CONNECT FROM NEW VFD'S TO PLC; R.V.S.S. SoftStarts MAY REQUIRE HARD-WIRED SIGNALS TO/FROM PLC REQ'TS MAY VARY WITH EQUIPMENT FURNISHED (SUBJECT TO SUBMITTAL REVIEW).
- © CONTRACTOR TO COORDINATE WITH GIANT SPRINGS STATE PARK FOR RELOCATING IRRIGATION SYSTEM PANELS, & PROVIDE WRITTEN NOTICE TO PARK A MINIMUM OF 7 DAYS IN ADVANCE OF DE-ENERGIZING & MOVING ANY IRRIGATION GEAR.

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Giant Springs Trout Hatchery Pump & Control Project ELECTRICAL DETAILS